

AWWA CY18 Water Audit Level 1 Validation - Review Document

Audit Information:

Utility: Citrus Heights Water District PWS ID: 3410006
System Type: Potable Audit Period: Calendar 2018
Utility Representation: Rex Meurer (Water Efficiency Supervisor), Brian Hensley, Alberto Preciado, David Gordon (Operations Manager)
Validation Date: 8/1/2019 Call Time: 10:30am Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 62 Data Validity Band (Level): Band III (51-70)
ILI: 0.39 Real Loss: 17.12 (gal/conn/day) Apparent Loss: 7.81 (gal/conn/day)
Non-revenue water as percent of cost of operating system: 1.9%

Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

Validator Information:

Water Audit Validator: Larry Lewison, Will Jernigan P.E. Validator Qualifications: Contractor for California Water Loss TAP

Validator Provided

2018 AWWA Water Audit Level 1 Validation

Water System Name: Citrus Heights Water District

Water System ID Number: 3410006

Water Audit Period: Calendar

Water Audit & Water Loss Improvement Steps:

Steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

Citrus Heights Water District conducted a comprehensive acoustic leak survey and pinpointing project during 2018. This included areas with high volumes of leaks and areas with aging water mains. The District track's the date a leak is reported, date leak is repaired, the type of leak and an estimated loss of water based on the severity of the observed leak. Pressure reduction zones are used in areas with high pressure. Hydrant flushing by crew's is estimated and reported. The District conducted the Water Loss Validation Survey.

Certification Statement by Utility Executive:

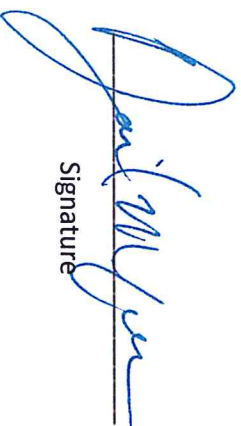
This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audits and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

David M. Gordon

Director of Operations

Executive Name (Print)

Executive Position



Signature

9/23/2019

Date

Utility Provided